STEC



SmartViewer

SV1

SmartViewer SV1 is a state-of-the-art GNSS receiver that merges industrial-leading inspiring ideas and technologies, offering an efficient and productive solution to no matter amateur or professional.



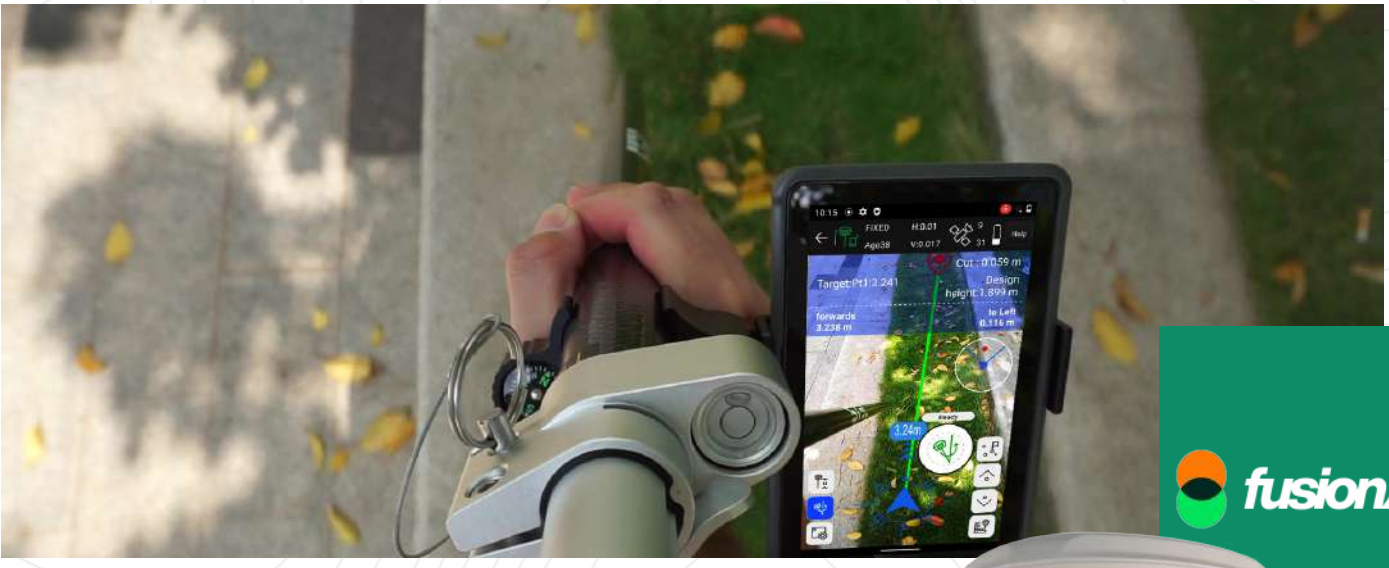
ZENITH
ALGORITHM

1,408 channels

21 frequencies

8+1 RTK accuracy

Empowered by ZENITH Algorithm, SmartView is capable to track enormous signals of all consetellations with stunningly fast fixing speed even under thick cover of trees or beside tall buildings. Coordinates will be examined twice to ensure an utmost accuracy.



fusionAR



A unique AR stake-out solution that coordinates cameras both on controller and receiver. When you are quite away from the point, the controller shows you the gerneral direction to the point. And when you are steps away from the point, the controller will shift to the camera beneath the receiver seaminglessly and show a more accurate guidance to the point.

Thanks to the 2W internal UFH Rx/Tx radio featured with high efficiency and low power comsumption, with S-LINK protocol, SmartViewer provides a safe and stable datalink with a super long distance up to 15km.

S-LINK





SPOS

SPOS (STEC Positioning Service) is a worldwide correction service based on precise point positioning (PPP) technology. By receiving corrections delivered directly from L-band satellites, SPOS allows you to achieve a centimeter-level accuracy with only one rover on hand when base receiver or CORS service is not accessible in remote areas.

STEC IMU just eases your work with an ever joyful experience. No need for calibration, no need for initialization. In a few seconds after getting fixed, you are in the EZtilt collect mode. Just tip the pole end to the point, especially those which are not easy to reach, within a tilt range of 60. Fast, easy, and reliable.

EZtilt



60°



SPECIFICATIONS

SATELLITE PERFORMANCE

Channels	1,408 | 1,808 (upgradable)
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L2
BEIDOU	B1I, B2I, B3I, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6
QZSS	L1, L2, L5, L6
SBAS	L1, L5
L-Band	B2b PPP
Positioning Rate	1-20Hz

ACCURACY

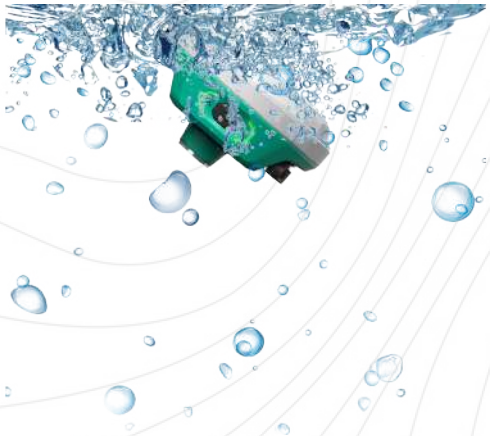
Code Differential	H: 0.40m (RMS) V: 0.80m (RMS)
Static	H: 2.5mm±0.5ppm (RMS) V: 5mm±0.5ppm (RMS)
Real-time Kinematic	H: 8mm±1ppm (RMS) V: 15mm±1ppm (RMS)
Network PPK	H: 3mm±1ppm (RMS) V: 5mm±1ppm (RMS)

IMU MEASUREMENT

Tilt Accuracy (No tilt angle limit)	2cm within 60°

DATA STORAGE

Type & Storage	SSD 8GB External USB Pen drive
Data Tranfer	Type-C USB Transfer Supports FTP/HTTP download
Differential Format	RTCM 2.1, RTCM 2.2, RTCM 3.0, RTCM 3.1, RTCM 3.2, NMEA 0183, CMR, CMR+
Static Data Format	DAT, RINEX 2.x, RINEX 3.x, BINEX
GPS Output Format	VRS, FKP, MAC
Network Model	Ntrip fully supportable



CAMERA

Optical Format	1/5 inch
Pixel Size	1.75*1.75μm
Active Pixel Array	1616*1232
Sensor	2 mega CMOS imaging sensors

COMMUNICATION

I/O	Type-C (OTG+Fast Charge+Ethernet)
Antenna Port	All-in-one port for radio/GPRS antenna
Network Modem	Nano-SIM card LTE FDD, LTE TDD, UMTS, GSM
UHF Radio	2W Tx/Rx 410-470MHz
Protocol	S-LINK, TrimTalk, Hi-target, SOUTH, CHC
WiFi	IEEE 802.11 a/b/g/n/ac Hotspot/Data Link
Bluetooth	Bluetooth 2.1 + EDR and 4.0
NFC	Available

INTERFACES

Button	1
LED Indicator	Data Link, Satellite, Bluetooth, Power

POWER SUPPLY

Battery	Internal Li-on Battery 7.2V, 6,800mAh
Operating Time	Static mode 20h Rover mode 15h

PHYSICAL

Dimension	74mm(H), 128mm (W)
Weight	740g
Operating Temp.	-30°C to 65°C
Storage Temp.	-40°C to 80°C
Proof	IP68 water and dust proof 2m drop on hard surface 40G 10ms sawtooth wave

Complied with the harshest standard of IP68 water and dust proof in industry, SV1 can survive in water at 1m depth for at least 1 hour even in power-on status.

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